

## Human G-CSF ELISA Kit | CSF3 elisa kit

Human G-CSF ELISA Kit

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| CATALOG #<br><b>AAA261751</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

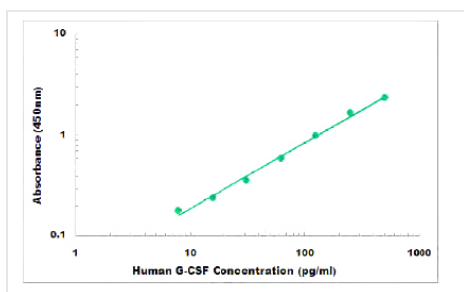
### PRODUCT SYNONYMS

G-CSF; Human G-CSF ELISA Kit; C17orf33; GCSF; Granulocyte colony-stimulating factor; Pluripoietin; Filgrastim; Lenograstim; CSF3 elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                 | Human                                                                                                                                                                                    |
| Specificity                                | The Human G-CSF ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human G-CSF proteins within the range of 7.8 pg/ml - 500 pg/ml. |
| Sequence Length                            | 207                                                                                                                                                                                      |
| Samples                                    | Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates, Urine.                                                                                                                     |
| Sensitivity                                | 4 pg/ml.                                                                                                                                                                                 |
| Applicable Applications for CSF3 elisa kit | ELISA (Sandwich ELISA)                                                                                                                                                                   |
| Preparation and Storage                    | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                              |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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| Related Product Information for CSF3 elisa kit | <p>Principle of the Assay  The Human G-CSF ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human G-CSF in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates, Urine. This assay employs an antibody specific for Human G-CSF coated on a 96-well plate. Standards and samples are pipetted into the wells and G-CSF present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human G-CSF antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of G-CSF bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.</p> <p>Background/Introduction: Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of hormone-like glycoprotein that regulates hematopoietic cell proliferation and differentiation, and it almost exclusively stimulates the colony formation of granulocytes from committed precursor cells in semi-solid agar culture. G-CSF is also termed colony stimulating factor-3, and a single gene of which codes for a 177 or 180 amino acid mature protein of molecular weight 19,600. Functionally, it specifically stimulates the proliferation and differentiation of the progenitor cells for granulocytes. The effect of G-CSF on myeloid leukemias is unique among colony stimulating factors in driving the leukemic cells from a self-renewing malignant state to a mature differentiated phenotype with the concomitant loss of tumorigenicity. Besides, it also prevents cardiac remodeling after myocardial infarction by activating the Jak-Stat pathway in cardiomyocytes. The recombinant form of hG-CSF is capable of supporting neutrophil proliferation in a CFU-GM assay as well as early erythroid colonies and mixed colony formation. Human gene coding for G-CSF is assigned to the q21-q22 region of chromosome 17.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------------------------|
| NCBI GI #                        | 117564                                |
| NCBI GeneID                      | 1440                                  |
| UniProt Accession #              | P09919; A8MXR7                        |
| Molecular Weight                 | 18,434 Da                             |
| NCBI Official Full Name          | Granulocyte colony-stimulating factor |
| NCBI Official Synonym Full Names | colony stimulating factor 3           |
| NCBI Official Symbol             | CSF3                                  |
| NCBI Official Synonym Symbols    | GCSF; CSF3OS; C17orf33                |
| NCBI Protein Information         | granulocyte colony-stimulating factor |
| UniProt Protein Name             | Granulocyte colony-stimulating factor |
| UniProt Gene Name                | CSF3                                  |
| UniProt Synonym Gene Names       | C17orf33; GCSF; G-CSF                 |
| UniProt Entry Name               | CSF3_HUMAN                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/csf3-human-elisa-kits/g-csf/261751>